Sheet <u>1</u> of <u>7</u>

U.S. DEPARTMENT OF COMMERCE					ATTY, DOC 20150-7435			SERIAL NO. 10/765,336		
	PATENT AND TRADEMARK OFFICE					APPLICANT				
!	NEORM	IATION DISCLOSURE STAT	TEMENT		Iontcho Vlahov et al. FILING DATE GROUP			OUD.		
	INI OISIVI	ATION DISOLOGONE STAT	EMEN :		1/27/2004	6				
U.S. PATENT DOCUMENTS										
*Examiner		Document Number	Date	Π	Name	Class	Subclas	Filing Date if Appropriate		
II II LIQI	AA	5,672,486	9/30/1997	Soi	ulillou	<del>                                     </del>	<del></del>	**************************************		
	AB	4,691,024	9/1/1987	Sira	ahata			*****		
	AC	4,713,249	12/15/1987	Sct	nroder	<u> </u>				
	AD	5,266,333	11/30/1993	Cad	dy	1				
	AE	5,417,982	5/23/1995	Mo	di					
	AF					†				
	AG		†	$\dagger$		†	<u> </u>			
	АН		1	†						
	Al			<del>                                     </del>						
	AJ		†	t						
	AK		†	$\dagger$						
	<u> </u>	!	FOREIGN PATI	ENT	DOCUMENTS	. <del></del>		<u> </u>		
		Document Number					Subclas	ranslation Yes <u>No</u>		
	AL	·								
	АМ									
	AN									
	AO									
	ΑP									
	AQ									
		OTHER REFERENCE								
	AR	Anderson et al., "Potocytos 410-411 (1992).					ies by cav	eolae," <i>Science</i> 255:		
	AS	Antony, A. C., "Folate rece	ptors," <i>Annu Re</i>	ev Nu	tr, 16: 501-21	(1996).				
	AT	Antony, A. C., "The biologic	cal chemistry of	folate	e receptors," B	3lood 79(11):2	2807-2820	(1992).		
i	AU	Barnett et al., "Structure-Ad Amide (Vindesine) Sulfate,					aloids. 1.	Deacetylvinblastine		
	AV	Boger, D.L., et al., "1,2,9,9a Analogue of the CC-1065 A	a-Tetrahydrocy	clopro	pa[ c ]benz[ e	]indol-4-one (		mplified		
	AW	Campbell et al., "Folate-bin						51: 5329-5338 (1991).		
	AX	Cho et al., "Single-chain F Bioconjug. Chem. 8(3): 338		jates	mediate efficie	ent lysis of fo	olate-recep	otor-positive tumor cells,"		
	AY	Christensen et al., "Membr 237-284 (1998).		for e	ndocytosis in	the renal pro	ximal tubu	ıle," Int. Rev. Cytol. 180:		
	AZ	Citro, et al., "Inhibition of le antisense oligodeoxynucek	ukemia cell pro otides into HL-6	liferat 30 cell	ion by folic aci	id - polylysine cerl, 69, 463-	-mediated 467, (1994	l introduction of c-myb		
Examiner			Jones/					7 <b>24/200</b> 8		
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.  Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.										

**BASED ON FORM PTO 1449** 

Sheet <u>2</u> of <u>7</u>

Control of the Contro	_	DEPARTMENT OF COMME		20150-743	ATTY. DOCKET NO. SERIAL NO. 20150-74359 10/765,336					
	PAIE	ENT AND TRADEMARK OFF	FICE	APPLICAN Iontcho Via	lontcho Vlahov et al.					
11	NFORM	IATION DISCLOSURE STAT	EMENT	FILING DA 1/27/2004	TE	GROUP 1616				
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate			
	ВА									
	BB	1	-			-				
	BC	<u> </u>	<del> </del>				-			
	BD		+			1	<del>                                     </del>			
	BE		FOREIGN PATE	NT DOCUMENTS	 s					
			T			Cubalage	Translation			
	<u> </u>	Document Number	Date	Country	Class	Subclass	Yes No			
	BF	<del> </del>	<del> </del>							
	BG		++		+	<del> </del>				
	BH		++				<del>                                     </del>			
	BJ		+		+		+			
	BK	+	+			<del> </del>	1			
		OTHER REFERENC	ES (including Au	uthor. Title, Date.	Pertinent Pag	es. Etc.)				
-	BL	Frankel, A.E., "Immunotox					<u>-</u> ,			
	ВМ	Garin-Chesa et al., "Trophoblast and ovarian cancer antigen LK26. Sensitivity and specificity in immunopathology and molecular identification as a folate-binding protein," <i>Am. J. Pathol.</i> 142(2): 557-562 (1993).								
	BN	Gottschalk, S., et al., "Fola enhanced gene expression				cells: potosoma	ıl disruption results in			
	ВО	Hofland et al., "Folate-targ				744 (2002).				
	BP	Holladay et al., "Riboflavin Acta 1426(1): 195-204 (19		ry of a macromole	ecule into cult	ured human cel	ll <b>s,</b> " <i>Biochim Biophy</i> s			
	BQ	Holm, J., et al., "Folate red 17(4): 415-427 (1997).								
	BR	Holm, J., et al., "High-affin immunoreactivity, molecular 280(1): 267-271 (1991).	lar heterogeneity	and hydrophobic	domain of the	e binding protein	n," Biochem J.			
	BS	Kamen et al., "Delivery of recycles," J. Biol. Chem. 2	263: 13602-13609	9 (1988).						
	ВТ	Kamen, B. A. and Capdevi content," <i>Proc. Natl. Acad.</i>	. Sci. USA 83: 59	983-5987 (1986).						
	BU	Kamen et al., "The folate r J. Clin. Invest. 87(4): 1442	2-1449 (1991).	•						
	BV	Kane et al., "The influence Partial characterization of (1986).	a membrane-ass	sociated methotres	xate binding p	orotein," J. Biol.	Chem. 261: 44-49			
	BW	Kranz et al., "Conjugates of positive tumor cells for lysi	is," Proc. Natl. Ad	cad. Sci. USA 92(2	(20), 9057-906	31 1995.	-			
	BX	Ladino et al., "Folate-mayt 864 (1997).	_	_						
	BY	Leamon, C. P. and Low, P Discovery Today 6: 36-43	. S., "Folate-med (2001).	liated targeting: Tr	om diagnostic					
Examiner		/D. Jo				Date Consid 03/24/				
		if reference considered, whe sitation if not in conformance :					inication to applicant.			

Sheet <u>3</u> of <u>7</u>

		DEPARTMENT OF COMMERENT AND TRADEMARK OFF		201 <u>50-7435</u> APPLICAN	ATTY. DOCKET NO. SERIAL NO. 20150-74359 10/765,336 APPLICANT				
I	NFORM	- IATION DISCLOSURE STATI	EMENT	lontcho Vla FILING DA	lontcho Vlahov et al.  FILING DATE GROUP				
				1/27/2004		1616			
			U.S. PATEN	T DOCUMENTS					
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate		
	CA					<u> </u>			
	СВ								
	CC		<u> </u>						
	CD		<u> </u>		_	<del>                                     </del>			
	CE		FOREIGN PAT	ENT DOCUMENTS					
						T	Translation		
	<u>'</u>	Document Number	Date	Country	Class	Subclass	Yes No		
	CF	200 1000	<u> </u>		<del> </del>				
	CG				<del>-</del>				
	CH		<del>                                     </del>		<del>-</del>				
	CI		ļ .			+			
	CJ		<del>                                     </del>		<del>                                     </del>	+			
	СК	OTUED DEFENDA	= 2 % 1 - 6 - 4	THE Date I	Southern the Control				
	l cl	OTHER REFERENCE	•				nan cells * 1 Riol		
		Leamon, C. P. and Low, P. S, "Cytotoxicity of momordin-folate conjugates in cultured human cells," J. Biol. Chem. 267(35): 24966-24971 (1992).							
	СМ	Leamon, C. P. and Low, P. S, "Delivery of macromolecules into living cells: a method that exploits folate receptor endocytosis," <i>Proc. Natl. Acad. Sci. USA</i> 88(13): 5572-5573 (1991).							
	CN	Leamon, C. P. and Low, P. endocytosis into cultured co	ells," Biochem.	J. 291: 855-860 (19	993).				
	co	Leamon, C. P. and Low, P. Target. 2(2): 101-112 (1994)	4).			•			
	CP	Leamon et al., "Folate-med 7(3): 157-169 (1999).	J	•	, ,				
	CQ	Leamon et al., "Synthesis a Radiopharmaceutical," <i>Bio</i>	conjug. Chem.	13(6): 1200-1210 (	(2002).				
	CR	Leamon et al, "Cytotoxicity translocation domain," J. B.	iol. Chem. 268(	(33): 24847-24854	(1993).				
	cs	Lee et al., "Synthesis and e Chem. 10(7): 2397-2414, (2	(2002).						
	СТ	Lee, R. J. and Huang, L., "I Tumor Cell-Specific Gene	Transfer," J. Bio	ol. Chem. 271(14):	8481-8487 (1	1996).			
	CU	Lee, R. J. and Low, P. S., " Biochim. Biophys. Acta 123	33: 134 <mark>-144 (1</mark> 9	995).					
	CV	Lee, R. J. and Low, P. S, "I endocytosis," <i>J. Biol. Chem.</i>	n. 269(5): 3198-	-3204 (1994).		•			
	CW	Lee et al, "Measurement of Biophys. Acta 1312(3): 237	7-242 (1996).	•	·	_			
	CX	Lewis et al., "Receptor-med Cancer Res. 58(14): 2952-	2956 (1998).						
	CY	Liu et al., "Targeted Drug D Cytotoxicity Toward 5-FU-F				rg. Chem. 66: 50	655-5663 (2001).		
Examiner		/D. J	<u>*</u>		·	Date Conside 03/2	<b>ered</b> :4/2008		
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.  Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.									

Sheet <u>4</u> of <u>7</u>

· " -	u.s.r	DEPARTMENT OF COMMER	RCE	ATTY. DOCKET NO. SERIAL NO. 20150-74359 10/765,336						
		ENT AND TRADEMARK OFF			APPLICANT					
1	NFORM	ATION DISCLOSURE STATE	EMENT		Iontcho Vlahov et al. FILING DATE GROUP					
					1/27/2004		1616			
			U.S. PATEN	1T DO	CUMENTS					
*Examiner Initial		Document Number	Date		Name	Class	Subclass	Filing Date if Appropriate		
	DA									
	DB									
	DC									
	DD DE			<u></u>	***************************************					
_	DE	<u> </u>	FOREIGN PAT	ENT	OCUMENTS	J				
		Document Number	Date		Country	Class	Subclass	Translation Yes No		
	DF									
	DG									
	DH									
	DI									
	DJ		·			<u> </u>				
	OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)  DK Lu, J. Y. and Low, P. S., "Folate targeting of haptens to cancer cell surfaces mediates immunotherapy of									
	DK	syngeneic murine tumors,"	Cancer Immui	nol Imi	munother 51:	153-162 (200	)2).			
	DL	Lu et al., "Folate-targeted enzyme prodrug cancer therapy utilizing penicillin-V amidase and a doxorubicin prodrug," <i>J. Drug Target</i> 7(1): 43-53 (1999).								
	DM	Lu, J. Y. and Low, P. S., "Folate-mediated delivery of macromolecular anticancer therapeutic agents," Adv. Drug Del Rev 54(5); 675-693-(2002)								
	DN	differentiated derivatives of	Luo et al., "Efficient syntheses of pyrofolic acid and pteroyl azide, reagents for the production of carboxyl- differentiated derivatives of folic acid," J. Am. Chem. Soc. 119: 10004-10013 (1997).							
	DO	Mathais et al., "Synthesis o radiopharmaceutical," <i>Bioc</i>	onjug Chem. 1	1(2): 2	253-257 (2000	)).				
	DP	KB tumor xenografts," Nuci	Mathais et al., "Receptor-mediated targeting of 67Ga-deferoxamine-folate to folate-receptor-positive human KB tumor xenografts," Nucl Med Biol 26(1): 23-25 (1999).							
	DQ	Mathias, C. J. and Green, M. A., "A kit formulation for preparation of [(111)ln]ln-DTPA-folate, a folate-receptor-targeted radiopharmaceutical," <i>Nucl. Med. Biol.</i> 25(6): 585-587 (1998).								
	DR	Mathias et al., "Tumor-Sele Gallium-67-Deferoxamine-I					ptor-Mediated I	Endocytosis of		
	DS	Mathias et al., "Indium- 111 Nucl. Med. 39(9): 1579-158	35 (1998).	•						
	DT	Matsui et al., "Studies on m 189-198 (1968).	nitomycins. 3. 1	The sy	nthesis and p	roperties of m	nitomycin deriva	atives," J Antibiot 21:		
	DU	Melani et al., "Targeting of antifolate receptor antibody	,," Cancer Res	. 58(1	8): 4146-415 <u>4</u>	(1998).				
	DV	Melby et al., "Entry of prote	in toxins in pol	larized	l epithelial cell	s," Cancer R	es. 53(8): 1755	-1760 (1993).		
	DW	Mislick et al., "Transfection Chem. 6(5): 512-515 (1995	5).		•					
	DX	Morshed et al., "Folate tran cultured human proximal tu	ubule cells," <i>J</i>	Nutr. 1	127(6): 1137-1	147 (1997).				
	DY	Olsnes, et al., "Immunotoxi (1989).	ns-entry into	cells a	and mechanisi	ms of action,*	' Immunol. Tod	ay 10: 291-295		
Examiner		/D. Jo:	nes/			· · · · · ·	Date Sonsid	908g		
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.  Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.										

**BASED ON FORM PTO 1449** 

Sheet <u>5</u> of <u>7</u>

*	U.S. (	20150-74359 10				SERIAL NO. 10/765,336					
	PATENT AND TRADEMARK OFFICE					APPLICANT lontcho Vlahov et al.					
I	NFORM	NATION DISCLOSURE STATI	EMENT		FILING DATE GROUP						
					1/27/2004	· · · · · · · · · · · · · · · · · · ·		1616			
	<u></u>		U.S. PATEN	√T DO	CUMENTS		,				
*Examiner Initial		Document Number	Date		Name	Class	Su	bclass	Filing Date if Appropriate		
	EA	<u> </u>		<del>                                     </del>		<u> </u>	├—				
	EB		<u> </u> '	<del> </del>			┼	<del></del>			
	EC		<u> </u>	ļ		<del> </del>	+	<u></u>			
	ED			├──			┼				
	EE		FOREIGN PAT		DOCUMENTS	2	<u> </u>				
	T	<del></del>	1	T			Τ		Translation		
		Document Number	Date	<u> </u>	Country	Class	Su	ıbclass	Yes No		
	EF			<u> </u>		<u> </u>	_				
	EG			<u> </u>		<del> </del>	-				
	EH			—		<del> </del>	╀				
	EI		-	┼─		<u> </u>	┼				
	EJ		= 2 % 1 refine a	4 - 44,	Title Date I			4. 1			
ļ	EK	OTHER REFERENCI Patrick et al., "Folate Rece							ore of Sv40		
	<u> </u>	Transgenic Mice," J. Neuro	oncol. 32(2): 1	111-12	23 (1997).						
	EL	Patrick et al., "Intracerebral bispecific ligand-antibody conjugate increases survival of animals bearing endogenously arising brain tumors," <i>Int. J. Cancer</i> 78(4): 470-79 (1998).									
	EM	Prasad et al., "Functional coupling between a bafilomycin A1-sensitive proton pump and a probenecid-sensitive folate transporter in human placental choriocarcinoma cells," <i>Biochim. Biophys. Acta</i> 1222(2): 309 (1994).									
	EN	Reddy et al., "Retargeting of viral vectors to the folate receptor endocytic pathway, J Control Release," 74(1-3): 77-82 (2001).									
	EO	Reddy et al., "Optimization J. Pharm. Sci 88(11): 1112	2-1118 (1999).								
	EP	Rijnboutt et al., "Endocytos (1996).									
	EQ	Ross et al., "Differential reg established cell lines. Phys	siologic and clir	nical ir	mplications," (	Cancer 73(9):	2432	2-2443, (19	94)		
	ER	Rothberg et al, "Cholestero 5-methyltetrahydrofolate,"	J. Cell Biol. 11	1(6): 2	2931-2938 (19	90).					
	E\$	Rothberg et al., "The glyco coated pit endocytic pathw	ay," J. Cell Bio	ol. 110	(3): 637-649 (	1990).					
	ET	Roy et al., "Targeting T cell 76(5): 761-66 (1998).									
	EU	Sadasivan et al., "The com determined from the cDNA	," J. Biol. Chen	m. 264	I: 5806-5811,	(1989).					
	EV	Senter et al., "Developmen Carbamate Disulfides," J. C	Org. Chem. 55:	: 2975	-2978 (1990).			_			
	EW	Smart et al., "Protein kinas caveolae," J. Cell Biol. 124	(3): 307-313 (1	1994).					_		
	EX	Smart et al., "Clustered fola Biol. 134(5): 1169-1177 (19	996).		•	-					
	EY	Li et al "Targeted delivery o	of antisense oli	igoded	oxynucleotides	₃ by LPDII," <i>J</i> .					
Examiner		/D. Jones	s/				Da	ate Consid 03/2	ered 4/2008		
		I if reference considered, whet									

Sheet <u>6</u> of <u>7</u>

		DEPARTMENT OF COMMERENT AND TRADEMARK OFF	ATTY. DOCKET NO. 20150-74359 APPLICANT			SERIAL NO. 10/765,336				
			1	ioπtcho Vlahov et al.						
INFORMATION DISCLOSURE STATEMENT					FILING DAT 1/27/2004	ΓΕ 		GROUP 1616		
			U.S. PATEN	VT DO	CUMENTS					
*Examiner Initial		Document Number	Date		Name	Class	Sub	class	Filing Date if Appropriate	
	FA									
	FB						<u> </u>			
	FC			<del> </del>			Щ			
	FD			↓			↓			
	FE.			<u> </u>			<u> </u>			
	г	1	FOREIGN PAT	ŒΝΤι Τ		1	T .		Translation	
		Document Number	Date	<u> </u>	Country	Class	Sub	class	Yes No	
	FF FG		<u></u>	╄		+	<del>                                     </del>			
	FH			$\vdash$	<del></del>		$\vdash$			
	FI			$\vdash$			<del>                                     </del>			
	FJ			<del> </del>			<del>                                     </del>			
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)										
	FK Steinberg, G. and Borch, R. F., "Synthesis and Evaluation of Pteroic Acid-Conjugated Nitroheterocyclic Phosphoramidates as Folate Receptor-Targeted Alkylating Agents," J. Med. Chem. 44: 69-73 (2001).									
	FL	Toffoli et al., "Overexpression of folate binding protein in ovarian cancers," Int. J. Cancer 74(2): 193-198 (1997).								
	FM	Turek et al., "Endocytosis of folate-protein conjugates: ultrastructural localization in KB cells," <i>J. Cell Sci.</i> 106: 423-430 (1993).								
	FN	Turk et al., "Characterization of a novel pH-sensitive peptide that enhances drug release from folate-targeted liposomes at endosomal pHs," <i>Biochim Biophys Acta</i> 1559(1): 56-68 (2002).								
	FO	Varma, R. and Mayor, S., " 394(6695): 798-801 (1998)	).	_						
	FP	Vyas, D., et al., "A practical synthesis of mitomycin A and its analogs," J Org Chem 31:4307-4309 (1986)								
	FQ	Vogel et al., "Peptide-Mediated Release of Folate-Targeted Liposome Contents From Endosomal Compartments," J. Am. Chem. Soc. 118(7): 1581-1586 (1996).								
	FR	Wang, S. and Low, P. S., " acids to cancer cells," J. Co	ontrol Rel 53(1	1-3): 39	9-48 (1998).					
	FS	Wang et al., "Delivery of an receptor into cultured KB co Sci. USA 92(8): 3318-3322	ells with liposo							
	FT	Wang et al., "Synthesis, pu radiopharmaceutical for tur	urification, and mor imaging," <i>I</i>	Biocon	ij. Chem. 7(1):	: 56-62 (1996)	).			
	FU	Wang et al., "Design and s Bioconjug Chem. 8(5): 673		1In]DT	PA-folate for	use as a tumo	or-targ	eted radi	opharmaceutical,"	
	FV	Weitman et al., Distribution Res., 52(12), 3396-3401, 1	1992.	•	•					
	FW	Weitman et al., "Cellular loo homeostasis," Cancer Res.	. 52(23): 6708-	-6711 (	(1992).					
	FX	Wiener et al., "Targeting de receptor," Invest. Radiol. 32	2(12): 748-54 (	(1997).	).	<u> </u>			•	
	FY	Wu et al., "Clustering of GF caveolin," <i>J. Membr. Biol.</i> 1				ndent of both				
Examiner		/D. Jones/						Conside 03/24/2		
		if reference considered, whet itation if not in conformance a						t commur	nication to applicant.	

EFS-Web Receipt date: 10/13/2006

10765336 - GAU: 1618

Sheet <u>7</u> of <u>7</u> SERIAL NO. ATTY. DOCKET NO. U.S. DEPARTMENT OF COMMERCE 20150-74359 10/765,336 PATENT AND TRADEMARK OFFICE **APPLICANT** Iontcho Vlahov et al. INFORMATION DISCLOSURE STATEMENT **GROUP** FILING DATE 1/27/2004 1616 U.S. PATENT DOCUMENTS Filing Date \*Examiner Subclass **Document Number** Date Name Class if Appropriate Initial GA GB GC GD ĢΕ FOREIGN PATENT DOCUMENTS Translation Subclass Class Document Number Date Country Yes No GF GG GH GΙ GJ OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.) Zimmerman, J., "Folic acid transport in organ-cultured mucosa of human intestine. Evidence for distinct GK carriers," Gastroenterol. 99(4): 964-972 (1990). GL GM GN GO GP GQ GR GS GT GU G۷ GW GX GY

Examiner /D. Jones/ Date Considered 03/24/2008

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.

Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.